

FAIRCHILDDU MONT LABORATORIES
SCIENTIFIC INSTRUMENT DEPARTMENT**Time-Mark Generator**
Transistorized**TYPE 781****NEW****TECHNICAL SPECIFICATIONS****TIMING MARKERS****MARKER INTERVALS:**

Microseconds - 1, 5, 10, 50, 100 and 500.

Milliseconds - 1, 5, 10, 50, 100 and 500.

Seconds - 1 and 5.

RISE TIME: 70 nanoseconds maximum at 1 μ s, 500 nanoseconds maximum at 5 secs. (terminated in 50 ohms).

OPEN CIRCUIT VOLTAGE: Marker Out Connector - 5 volts open circuit; 3 volts with 390-ohm termination, 1 volt with 50-ohm termination. Tip Jack - 30 volts open circuit; 15 volts with 600-ohm termination.

OUTPUT IMPEDANCE:

Marker Out Connector - 390 ohms.

Tip Jacks - 600 ohms.

JITTER: Pulse-to-pulse marker jitter shall not exceed 0.05%.

DELAY: The output marker pulse is essentially coincident with the trigger output pulse of same timing rate.

SINE-WAVE OUTPUTS

FREQUENCIES: 5 Mc, 10 Mc, and 50 Mc.

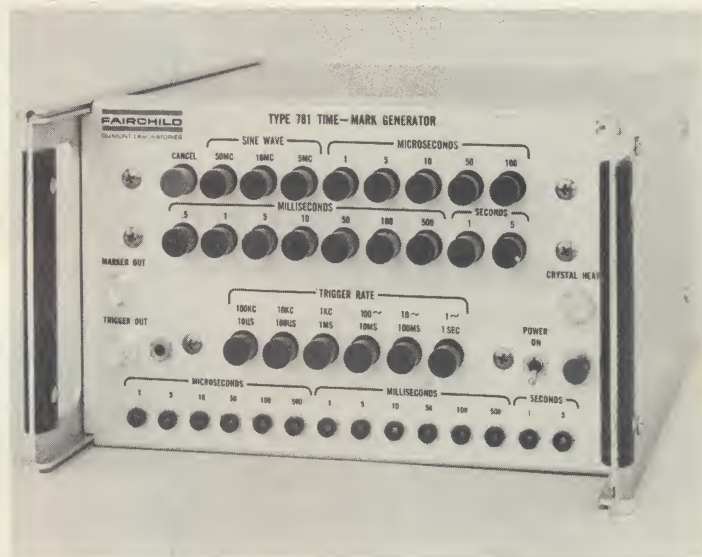
OPEN CIRCUIT VOLTAGE: 6 volts minimum peak-to-peak, output into 50 ohms: 3 volts minimum p-p. 3 volts minimum peak-to-peak across 50 ohms.

AVAILABILITY: Front-panel push-button switches are provided to connect any one of three sine-wave outputs to the MARKER OUT connector.

TRIGGERING PULSES

REPETITION RATE: Choice of - 1; 10; 100; 1000; 10,000; 100,000 pulses per second.

OPEN CIRCUIT VOLTAGE: 10 volts minimum, 5 volts terminated in 50 ohms.

RISE TIME: 90 μ sec maximum, terminated in 50 ohms.

DU MONT LABORATORIES • DIVISIONS OF FAIRCHILD CAMERA AND INSTRUMENT CORPORATION

SCIENTIFIC INSTRUMENT DEPARTMENT • 750 BLOOMFIELD AVENUE, CLIFTON, NEW JERSEY

TECHNICAL SPECIFICATIONS TYPE 781

CRYSTAL OSCILLATOR AND BASIC SYSTEM ACCURACY

FREQUENCY: 1 megacycle \pm 10 cps ($\pm 0.001\%$); may be precisely set for 1 Mc.

STABILITY: Within 3 parts per million in 24 hours. Crystal over is used to stabilize frequency.

ACCESSORIES

Cables- 50 ohms (2 each) 42 inches long BNC to BNC.

Power cord adapter- 3 connectors (1 each).

Instruction manual - (1 each).

PHYSICAL CHARACTERISTICS — (Half rack universal package)

Height	5¼ inches	(13.3 cm)
Width	8¼ inches	(21 cm)
Depth (includes handles)	10.5 inches	(26.6 cm)
Weight	9.5 pounds	(4.3 kg)

POWER

Line Voltage	From 105 to 125 volts and 210 to 250 volts
Line Frequency	Operation from 48 to 1000 cycles
Power (Average)	21 watts at 115-volt, 60-cycle line

AVAILABLE ACCESSORIES (Optional)

Type 4285A	— 50 ohms termination	\$16.50
Type 7093	— 50 ohms 5 to one attenuator pad	16.50
Type 7082	— Cable BNC to BNC 42 inches long	4.75
Type 7094	— Cover, for panel and storage of accessories	25.00
Type 7095	— Rack mount hardware for stacking 2 half rack units	25.00
Type 7096	— Rack ears for ½ rack mounting (2 each)	5.00
Type 7080	— Panel BNC to binding post adapter	2.35
Type 7083	— Cable BNC to alligator clips 42 inches long	3.85

Type 781 Time-Mark Generator \$595.00 FOB, Clifton, N.J.